

Claims:

1. A downhole tool for use in a wellbore comprising:
a housing having a shaped inner bore, a first end and a second end;
a rotor having a plurality of extendable members, wherein the rotor is disposable in the shaped inner bore to form at least one chamber therebetween; and
a substantially axial fluid pathway through the chamber, wherein the fluid pathway includes at least one inlet proximate the first end and at least one outlet proximate the second end.
2. The downhole tool of claim 1, wherein the plurality of extendable members are polygon shaped.
3. The downhole tool of claim 2, wherein the plurality of extendable members are rectangular shaped.
4. The downhole tool of claim 3, wherein the plurality of extendable members wipe the shaped inner bore as the rotor rotates.
5. The downhole tool of claim 1, further including a rotor support disposed at either end of the rotor, wherein the rotor support is lubricated by fluid communicated through the fluid pathway.
6. The downhole tool of claim 1, further including a second fluid pathway allowing fluid communication through the downhole tool and being separate from the fluid pathway.
7. The downhole tool of claim 6, wherein the downhole tool includes a split flow arrangement, whereby a predetermined amount of fluid is communicated into the fluid pathway and a predetermined amount of fluid is communicated through the second pathway.

8. The downhole tool of claim 6, wherein the second fluid pathway comprises a bore formed in the rotor.
9. The downhole tool of claim 8, wherein the bore is constructed and arranged to allow a ball to pass through the downhole tool.
10. The downhole tool of claim 6, further including a restriction disposed in the second fluid pathway to control the flow of fluid therethrough.
11. The downhole tool of claim 10, wherein a predetermined back pressure created by the restriction indicates the operating condition of the downhole tool.
12. The downhole tool of claim 1, wherein each extendable member is biased radially outward by a biasing member.
13. A downhole tool for use in a wellbore comprising:
 - a housing having a shaped inner bore;
 - a rotor having a plurality of extendable members disposed on the outer surface thereof;
 - a first fluid pathway through the downhole tool, wherein the fluid pathway includes at least one chamber formed between the shaped inner bore and the rotor; and
 - a second fluid pathway through the downhole tool, wherein the second fluid pathway is separate from the first fluid pathway.
14. The downhole tool of claim 13, wherein the second fluid pathway includes a bore formed in the rotor.
15. The downhole tool of claim 13, wherein the downhole tool includes a split flow arrangement, whereby a predetermined amount of fluid is communicated into the

first fluid pathway and a predetermined amount of fluid is communicated into the second fluid pathway.

16. The downhole tool of claim 13, wherein the second fluid pathway is constructed and arranged to allow a ball to pass through the downhole tool.

17. The downhole tool of claim 13, further including a restriction disposed in the second fluid pathway to control the flow of fluid therethrough.

18. The downhole tool of claim 13, wherein the first fluid pathway is a substantially axial fluid pathway through the chamber, wherein the fluid pathway includes at least one inlet proximate a first end of the housing and at least one outlet proximate a second end of the housing.

19. The downhole tool of claim 13, further including a separator member having a plurality of passageways disposed in the housing for filtering the fluid flowing into the first fluid pathway.

20. The downhole tool of claim 19, wherein the plurality of fluid passageways are constructed and arranged to deter particles from entering the first fluid pathway.

21. The downhole tool of claim 13, further including a plurality of holes formed in the rotor, whereby a fluid in the second fluid pathway flows through the plurality of holes to bias the plurality of members radially outward.

22. The downhole tool of claim 21, wherein the plurality of members are further biased radially outward by a biasing member.

23. A downhole motor for use in a wellbore comprising:
a housing having a shaped inner bore, a first end and a second end;

a rotor disposable in the shaped inner bore to form at least one chamber therebetween;

a substantially axial fluid pathway through the chamber, wherein the fluid pathway includes at least one inlet proximate the first end and at least one outlet proximate the second end; and

a plurality of extendable non-circular members.

24. The downhole motor of claim 23, wherein the members are extendable into the at least one chamber to form a substantially flat differential surface area between an outer surface of the rotor and the shaped inner bore.

25. The downhole motor of claim 23, wherein the plurality of extendable non-circular members are movable between an extended position and a retracted position.

26. The downhole motor of claim 23, further including a second fluid pathway allowing fluid communication through the downhole tool and being separate from the fluid pathway.

27. The downhole motor of claim 26, wherein the second fluid pathway is constructed and arranged to allow a ball to pass therethrough.

28. A downhole tool for use in a wellbore comprising:

a first power section having a first fluid chamber formed between a first housing and a first rotor having extendable members; and

a second power section having a second fluid chamber formed between a second housing and a second rotor having extendable members, wherein the first fluid chamber and the second fluid chamber are connected in parallel fluid communication.

29. The downhole tool of claim 28, further including a substantially axial fluid pathway through the first and second fluid chamber, wherein the fluid pathway includes at least one inlet proximate one end of the first housing and at least one outlet proximate one end of the second housing.

30. The downhole tool of claim 29, further including a second fluid pathway through the downhole tool.

31. The downhole tool of claim 30, wherein the second fluid pathway is constructed and arranged to allow a ball to pass therethrough.

32. A separator for use in a downhole motor comprising:

a separator member fluidly connected to a first fluid pathway and a second fluid pathway, wherein the second fluid path is separate from the first fluid pathway and the separator member is constructed and arranged to deter particles from entering the first fluid pathway.

33. A downhole tool for use in a wellbore comprising:

a housing having a substantially circular inner bore and a plurality of extendable members;

a rotor having a first end, a second end, and a shaped outer surface, wherein the rotor is disposable in the substantially circular inner bore to form at least one chamber therebetween; and

a substantially axial fluid pathway through the chamber, wherein the fluid pathway includes at least one inlet at the first end and at least one outlet at the second end.

34. A method of rotating a downhole tool, comprising:

placing a tubular string having a motor therein, the motor comprising:

a housing having a shaped inner bore;

a rotor having a plurality of extendable members disposed on the outer surface thereof;

a first fluid pathway through the downhole tool, wherein the fluid pathway includes at least one inlet, at least one outlet and at least one chamber formed between the shaped inner bore and the rotor; and

a second fluid pathway through the downhole tool, wherein the second fluid pathway is separate from the first fluid pathway;

extending the members into the at least one chamber to form a differential surface area between an outer surface of the rotor and the shaped inner bore;

pumping fluid through the at least one inlet to pressurize the at least one chamber;

creating a force on the substantially flat differential surface area, thereby causing the rotor to rotate; and

exhausting fluid through the at least one outlet.

35. The method of claim 34, further including pumping a ball through the second fluid pathway to an area below the motor.

36. The method of claim 34, further including cleaning an area of the wellbore below the motor by pumping a fluid through the second fluid pathway.

37. The method of claim 34, further including pumping a predetermined amount of fluid through the first fluid pathway and pumping a second predetermined amount of fluid through the second fluid pathway.

38. The method of claim 34, further including filtering the predetermined amount of fluid through the first fluid pathway by a separator member disposed in the motor.

39. The method of claim 34, further including wiping the shaped inner bore with the plurality of members as the rotor rotates.